

**Notice of Allowability**

Application No.

10/527,590

Applicant(s)

MANCHESTER, JONATHAN  
RALPH

Examiner

Joseph Waks

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed Jul 30, 2007.
2. ☒ The allowed claim(s) is/are 1,5-9 and 11, 13-15.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 7/30/07
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jack Schwartz on September 26, 2007.

The application has been amended as follows:

Please amend the specification as follows:

Amend the paragraph beginning on page 6, line 15 as follows:

"Referring to Figure 1, a tidally driven electricity generator 1 has a series of turbines 2, each of which is mounted under water in an offshore location, for example suspended from floating buoys or anchored by cables to the sea bed, using methods which will be familiar to persons skilled in the art. Each turbine 2 has blades 3 which are rotated by tidal flow of water, to power a respective generator 4, which outputs AC electrical power (a first electrical signal) via a respective transformer 5 to a cable 6 and appropriate switch gear 7."

Amend the paragraph beginning on page 7, line 3 as follows:

"The drive 9 outputs DC electrical signals (a second electrical signal) along cabling 13 to DC/AC converter 14, which outputs AC electrical power via transformer 15 to a fixed frequency local supply grid 16. The drive 9 also controls the speed of rotation of each turbine 2 by adjustment of the frequency of signals output to the turbines from the drive 9 via switchgear 7, in a manner which will be familiar to persons skilled in the art."

Amend the paragraph beginning on page 7, line 20 – page 8, line 4 as follows:

"When the speed of rotation of each turbine 2 has been set, by means of a controller in the drive 9, to operate at a given efficiency, the frequency of electricity output by each generator 4 depends upon that speed of rotation, and will be generally the same for all for the turbines. The electrical output signals are then input to drive 9 and are output via DC/AC converter 14 and transformer 15 to the local grid 16. However, because of the frequency of the electrical signals output by the turbines 2 can be different from that of the grid 16, the controller in drive 9 can vary the frequency of electrical signals output by cabling 13. As a result, the frequency of AC electrical power supplied by transformer 15 to the local supply grid can be matched to that of the grid 16 for optimum power transfer. The drive 9 may be controlled by a feedback loop (a third electrical signal - not shown) matching the output frequency of DC/AC converter 14 to the grid 16."

2. The following is an examiner's statement of reasons for allowance:

Applicant's arguments see amendment after non-final rejection, filed July 30, 2007 have been fully considered and are persuasive.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Waks whose telephone number is (571) 272-2037. The examiner can normally be reached on Monday through Thursday 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

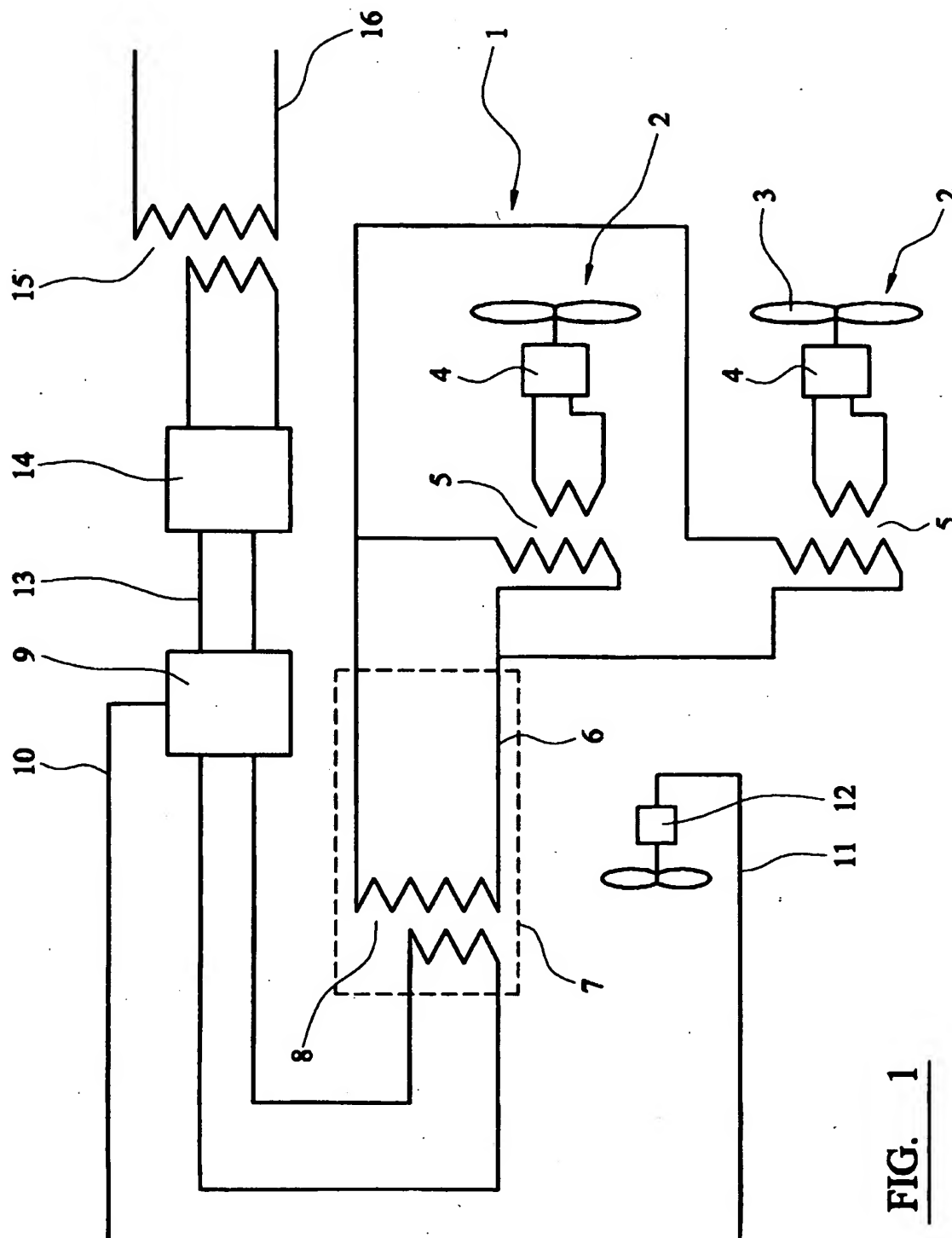
Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Joseph Waks  
Primary Examiner  
Art Unit 2834

September 29, 2007

-1/1-



**FIG. 1**

208216 ME  
Approved